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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/361,963	07/28/1999	YASUE SATO	35.C10695DIV	6193
5514	7590 06/10/2002			
FITZPATRICK CELLA HARPER & SCINTO 30 ROCKEFELLER PLAZA			EXAMINER	
NEW YORK, NY 10112			GUHARAY, KARABI	
			ART UNIT	PAPER NUMBER
			2879	
			DATE MAILED: 06/10/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Action Summary	09/361,963	SATO ET AL.			
	Examiner	Art Unit			
The MAILING DATE of this communication	Karabi Guharay	2879			
The MAILING DATE of this communication a Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statu - Any reply received by the Office later than three months after the maili earned patent term adjustment. See 37 CFR 1.704(b). Status	136(a). In no event, however, may a reply within the statutory minimum of thirty did not solve SIX (6) MONT	eply be timely filed (30) days will be considered timely.			
2-) The state to communication(s) filed on					
20)	his action is non-final.				
3) Since this application is in condition for allow closed in accordance with the practice under Disposition of Claims	rance except for formal matt Ex parte Quayle, 1935 C.D	ers, prosecution as to the merits is . 11, 453 O.G. 213.			
4) Claim(s) 9-15 is/are pending in the application	n				
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>9-15</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/o	r election requirement				
Application Papers	ciection requirement.				
9)☐ The specification is objected to by the Examine	r.				
10) The drawing(s) filed on is/are: a) accept	oted or b) objected to by the	Fyaminer			
Applicant may not request that any objection to the	drawing(s) he held in above	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.					
in approved, corrected drawings are required in reply to this Office action					
12) The oath or declaration is objected to by the Exa	aminer.				
Priority under 35 U.S.C. §§ 119 and 120					
Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a)∟ A b)∟ Some * c)∟ None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
application from the International Bureau (BOT B. to a received in this National Stage					
or a list of the action for a list of	f the certified conies not rec	eived.			
14) Acknowledgment is made of a claim for domestic	priority under 35 U.S.C. 8.1	19(e) (to a provisional and a survival			
	icional anni::				
15) Acknowledgment is made of a claim for domestic Attachment(s)	priority under 35 U.S.C. §§	120 and/or 121.			
1) Notice of References Cited (PTO-892)					
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	o) Notice of Inform	nary (PTO-413) Paper No(s) · nal Patent Application (PTO-152)			
. Patent and Trademark Office	6)				
TO-326 (Rev. 04-01) Office Action	on Summary				

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 9-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Spindt et al. (Us 5742117), in view of Cathey (US 5734226).

Regarding claim 9, Spindt et al. disclose an image forming apparatus comprising a first plate (14 of Fig 2) including electron emitting device (emitter 30), a second plate (faceplate 12) being disposed to face the first plate (11), a plurality of spacers (20) between the first plate and the second plate (Fig 2), the spacers being disposed substantially in parallel with each other and extending in a longitudinal direction (see Fig

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1), an outer frame ((16 of Fig 1) hermetically surrounding a space between first plate and second plate (lines 49-66 of column 4).

But Spindt et al. fail to disclose a getter being disposed first plate and second plate within the space and being proximate to a side of the outer frame (16), which is positioned across an imaginary extension of the spacers in the longitudinal direction.

However, Cathey discloses an image forming apparatus having a getter (conductive metallic wire 21 of Fig 1) disposed between first plate and second plate and proximate to a side of the outer frame (see Fig 1) in order to remove residual gases from the vacuum display (see lines 59 of column 2- line 3 of column 3).

Thus, it would have been obvious to one having ordinary skill in the art at the time the invention was made to include a getter, as disclosed by Cathey, in the device of Spindt et al., since this will provide effective performance of the display by removing unwanted, residual gases from the vacuum chamber.

Regarding claim 10, Cathey discloses that the getter (conductive wire 21) is disposed outside a region in which the electron emitting devices are formed (see Fig 1).

Regarding claim 11, Cathey discloses the getter being disposed at the outer frame consequently, one part of the getter is positioned within a region surrounded by the imaginary extensions of two of the spacers in the longitudinal direction the two spacers being in outermost sides (since getter is arranged in the periphery of the envelope).

Regarding claim 12, Though Cathey does not teach a ring shaped getter, it is noted that applicant's specific shape of the getter does not solve any of the stated

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problems or yield any unexpected result that is not within the scope of the teachings applied. Therefore it is considered to be a matter of choice, which a person of ordinary skill in the art would have found obvious to select a getter having a ring shape.

Regarding claim 13, Spindt discloses that the region in which the electronemitting devices are formed is an approximate rectangle (see Fig 1) and spacers are disclosed from one side to the other.

Regarding claim 14, Spindt discloses that the electron emitting devices are field emission type devices are field emission devices (see Fig 2).

Regarding claim 15, Spindt does not exemplify that the electron emitting devices are surface conduction electron emitting device. However, it is well known in the art, that there are three types of cold cathode type electron emission devices, (1) field emission type, (2) MIM type (3) surface conduction type.

It is noted that applicant's specific type of electron emitting device (in this case surface conduction type) does not solve any of the stated problems or yield any unexpected result that is not within the scope of the teachings applied. Therefore it is considered to be a matter of choice, which a person of ordinary skill in the art would have found obvious to select one of the above three types of electron emitting devices (see # 6160347).

Other Prior Art Cited

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: Longo et al. (US 5063323)

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karabi Guharay whose telephone number is (703) 305-1971. The examiner can normally be reached on Monday-Friday 8:30 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimeshkumar D. Patel can be reached on (703) 305-4794. The fax phone number for the organization is (703) 308-7382.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

KG Karabi Guharay Patent Examiner Art Unit 2879

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